



EW Systems Performance Based Logistics



Raytheon provides critical mission support to the warfighter via its unequalled Performance Based Logistics (PBL) capabilities. Our unique processes and tools – proven in a combat environment – combine to create a robust and agile support environment for a full complement of electronic warfare systems.

Benefits

- Detection of performance anomalies prior to them becoming hard failures
- Established process for managing delivery and transport of assets in response to removals in the field
- Proven processes reduce cycle times and facilitate true two-level maintenance; reduced logistics footprint
- Ongoing enhancement of repair procedures facilitates engineering upgrades and reliability improvement
- Internet-based integrated reporting system offers easy accessibility to all data
- Proactive obsolescence management leveraged by integrating engineering change planning with hardware configuration management
- Increased reliability/availability and lower life-cycle cost

For more than 50 years, Raytheon Electronic Warfare Systems has built a worldwide reputation for producing electronic defense systems with outstanding performance and reliability. Our product line is one of the most complete in the world and includes radar warning receivers, towed decoys, missile/radar jammers, missile warning sensors, and integrated electronics suites.

Supporting our products is second nature to us. Ensuring the availability and reliability of our equipment is critical to mission success, and our commitment to this is unwavering. Our PBL programs reflect this critical focus. In fact, our ALR-67(V)3 program has proven to dramatically enhance reliability and maintainability.

Proven PBL Processes

Raytheon's PBL processes provide the end-user with excellent system availability while utiliz-

ing a minimum amount of spare assets, test equipment, facilities, and resources.

Raytheon's PBL programs accomplish superior performance by establishing a well defined process for managing the repair/upgrade, delivery, and transport of assets in response to removals in the field. By precisely defining each activity in the overall process, the maintenance task is effectively integrated from the operational user back to the Raytheon PBL depot. These processes allow reduced cycle times, resulting in less material in transit and lower warehouse stock levels. Continuous real-time tracking means the flow of assets is predictable and timely. The timely flow of material and the continuous visibility of assets allows for a nimble, two-level process that maximizes the use of resources and minimizes the logistics footprint.

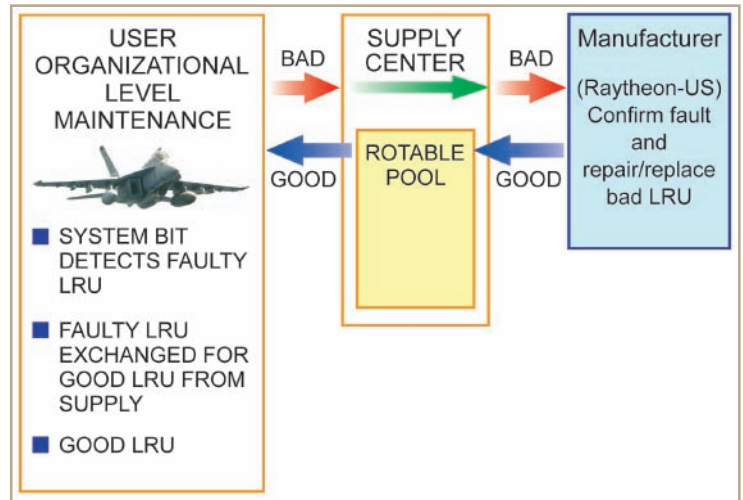
Ready availability of replacement assets and very short transit times provide the desired levels of availability to any location in the world, without creating complex and lengthy supply chains.

Establishment of a single point of repair for each asset allows for agile process controls and reduced time to market for continuous process improvements. Frequent process and tool enhancements are made, keeping current with the state-of-the-art.

Single sources of repair and integrated configuration management allows for the rapid implementation of strategic engineering changes. These strategic changes result in significant, post-delivery reliability growth and early resolution of parts obsolescence issues.



Raytheon maintains state-of-the-art lab facilities and on-line reporting systems.



Raytheon's PBL program process ensures maximum availability.

Integrated Data Reporting

Raytheon's Internet-based reporting system is accessible from virtually anywhere and can be integrated with government supply systems. Material movements are tracked continuously and updates are performed real-time in a paperless work environment. End-users have on-line access to all data, including status for material in work, current and historical equipment configurations, failure history/trends, and parametric test data. Using these tools, Raytheon has established an enterprise-wide system for sharing data and managing the flow of material. This enterprise comprises Raytheon, subcontractor, and customer personnel at facilities located throughout the world. All program personnel have access to the most up-to-date program information around the clock. Automated notifications are sent to critical team members via e-mail and text messaging when support demands arise. Using an open architecture for the support information systems allows the team to leverage new technologies as they emerge.

	Contract Requirements	Demonstrated Performance
Reliability	Grow reliability by more than 50%	100% reliability growth during first five years
Availability	90% availability of replenishment WRAs within five working days	98% availability of replenishment WRAs within two working days
Data Item Requirements	None	Asset status tracked on-line and reported directly into organic SCM systems via EDI and direct database connections
Government Furnished Test Equipment/ Technical Data	None	Established dedicated lab with state-of-the-art troubleshooting tools

Raytheon's ALR-67(V)3 PBL program proven to dramatically enhance reliability and availability.

Performance Through Process Improvement

This progressive PBL process is enabled by an effective contractual mechanism used to execute the PBL program. In this contract structure, Raytheon guarantees system availability and reliability to the user. PBL costs are divided into both variable and fixed, which allows charging by the aircraft flight hour. Because of this progressive contract structure, Raytheon is provided incentive to extend the period between repair actions. This incentive fuels significant investment on the part of Raytheon. Raytheon has developed tools to detect performance anomalies — prior

to them becoming hard failures — and routinely incorporates reliability parts obsolescence improvements into the hardware at its own initiative. This results in significant increases in system reliability, predictable delivery performance, assured availability, and decreased maintenance costs.

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Raytheon

Customer Success Is Our Mission